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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,307	12/12/2001	Franklin Zhigang Zhang	5559	
75	90 04/07/2003			
Franklin Zhigang Zhang 4808 Laurette Street Torrance, CA 90503			EXAMINER	
			BUI, HI	BUI, HUNG S
			ART UNIT	PAPER NUMBER
		2841		
		DATE MAILED: 04/07/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	-	Application No.	Applicant(s)				
		10/015,307	ZHANG, FRAN	KLIN ZHIGANG			
	Office Action Summary	Examiner	Art Unit				
		Hung S Bui	2841				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply							
A SHO THE M - Extens after S - If the p - If NO - Failure - Any re earned	ORTENED STATUTORY PERIOD FOR REPLY IAILING DATE OF THIS COMMUNICATION. Sions of time may be available under the provisions of 37 CFR 1.13 (B) MONTHS from the mailing date of this communication. Deriod for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, ply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however within the statutory minimu will apply and will expire SIX cause the application to be	, may a reply be timely filed m of thirty (30) days will be considered ti (6) MONTHS from the mailing date of th come ABANDONED (35 U.S.C. § 133).	mely. is communication.			
Status	Decreasing to communication/s) filed on						
1)	Responsive to communication(s) filed on		1				
2a)□	,—	is action is non-fina		the merite is			
3)□ Dispositio	Since this application is in condition for allowated closed in accordance with the practice under ton of Claims			The ments is			
·	Claim(s) <u>1-6</u> is/are pending in the application.						
	la) Of the above claim(s) is/are withdraw	vn from consideration	on.				
5)	Claim(s) is/are allowed.						
6)🖂	Claim(s) <u>1-6</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/o	r election requireme	ent.				
Application	on Papers						
•—	The specification is objected to by the Examine						
10)□ T	the drawing(s) filed on is/are: a)☐ accept						
	Applicant may not request that any objection to the						
11)∐_ T	he proposed drawing correction filed on			miner.			
If approved, corrected drawings are required in reply to this Office action.							
<i>'</i> —	he oath or declaration is objected to by the Ex	апппет.					
•	nder 35 U.S.C. §§ 119 and 120		0.0.0.440(=) (4) == (5)				
	Acknowledgment is made of a claim for foreign	n priority under 35 U	.S.C. § 119(a)-(d) or (f).				
• –	☐ All b)☐ Some * c)☐ None of:	. t b					
	1. Certified copies of the priority documents						
	2. Certified copies of the priority documents			nal Stage			
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
•	☐ The translation of the foreign language procknowledgment is made of a claim for domesti						
Attachment	•	•					
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 No	terview Summary (PTO-413) Paper otice of Informal Patent Application ther:				

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DETAILED ACTION

Claim Objections

- 1. Claims 3-6 are objected to because of the following informalities:
 - Regarding claim 3, in line 3, there is no antecedent basic for "the expansion PCB zone."
 - Regarding claim 5, lines 2-3, "zone of claim 3" should be corrected as zone of --.
 - Regarding claim 6, line 2, "shield expansion zone of claim 2" should be corrected as – shield expansion zone--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-6 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only. Note the format of the claims in the patent(s) cited.

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Regarding claim 1, line 1, the structure intended by the computer system board "with plurality of shield expansion housing solution" is unclear. In line 4, applicant should clarify the structure intended by "plurality of shield expansion housing solution."

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Volz et al. [US 5,378,169] in view of Gessaman [US 5,559,676].

Regarding claims 1-3 and 5-6, Volz et al. disclose a computer system board (12) comprising:

- a plurality of shield expansion zones (64, figures 1-2);
- a plurality of connectors (30, 52b) mounted on the system board within the expansion zones (figures 1 and 3);
- a plurality of daughter boards (14) mated with the connectors (figures 5-6);
 and
- a plurality of covers (12) extending over the daughter boards.

Volz et al. disclose the instant claimed invention except for the cover being formed of shielding material.

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Gessaman discloses a daughter board (4) being mounted to a base board (44) with a metallic cover (8).

It would have been obvious to a person having ordinary skill in the art at the time invention was made to use the metallic material for the cover of Volz et al., as suggested by Gessaman, for the purpose of protecting aganst EMI inteference.

6. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Volz et al. in view of Gessaman, as applied to claim 3 above, and further in view of Higgins, III [US 5,639,989].

Regarding claim 4, Volz et al. in view of Gessaman disclose the instant claimed invention except for the shield expansion zone being formed of copper.

Higgins, III disclose a shielding member (70) mounted on a copper mounting base (56).

It would have been obvious to a person having ordinary skill in the art at the time invention was made to use copper for the shield expansion zone of Volz et al. in view of Gessaman, as suggested by Higgins, III, for the purpose of improving conductivity between the shield and expansion zones.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Denzene et al. [US 5,867,371];

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- Ohira [US 6,118,347]; and

- Chan [US 5,838,551].

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung S Bui whose telephone number is (703) 305-8024.

The examiner can normally be reached on Monday-Friday 8:30AM-6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David S. Martin can be reached on (703) 308-3121. The fax phone

numbers for the organization where this application or proceeding is assigned are (703)

308-7722 for regular communications and (703) 308-7724 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

0956.

HB

3/29/03

DAVID MARTIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

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